

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/JP03/12381

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07D311/58, 311/80, A61K31/353, A61P25/00, 43/00,  
A23K1/16, 1/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C07D311/58, 311/80, A61K31/353, A61P25/00, 43/00,  
A23K1/16, 1/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAPLUS (STN), CAOLD (STN), REGISTRY (STN), MEDLINE (STN), BIOSIS (STN),  
EMBASE (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PARMAR, Virinder S. et al., Anti-invasive Activity of Alkaloids and Polyphenolics in Vitro, Bioorganic & Medicinal Chemistry, 1997, Vol.5, No.8, pages 1609 to 1619	1-5
A	YOOK, Chan-Nam et al., Alkylation of Orcinol with Nerol in Modified Lewis Acid, BULLETIN OF THE KOREAN CHEMICAL SOCIETY, 1992, Vol.13, No.5, pages 457 to 458	1-5
A	JP 2000-72766 A (Daiichi Pharmaceutical Co., Ltd.), 07 March, 2000 (07.03.00), Full text (Family: none)	1-5

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
05 December, 2003 (05.12.03)

Date of mailing of the international search report  
24 December, 2003 (24.12.03)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 7-165588 A (Tsumura & Co.), 27 June, 1995 (27.06.95), Full text (Family: none)	1-5
A	JP 2001-58969 A (Nettai Urin Saisei Gijutsu Kenkyu Kumiai), 06 March, 2001 (06.03.01), Full text (Family: none)	1-5
A	JP 63-104912 A (Tsumura Juntendo Co., Ltd.), 10 May, 1988 (10.05.88), Full text (Family: none)	1-5
A	WO 02/49632 A1 (Institute of Medicinal Molecular Design Inc.), 27 June, 2002 (27.06.02), Full text & AU 200222683 A & EP 1352650 A1	1-5

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/12381

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

## 2. Citations and explanations

- Document 1: Virinder S. PARMAR et al., "Anti-invasive Activity of Alkaloids and Polyphenolics in Vitro," Bioorganic & Medicinal Chemistry, 1997, Vol. 5, No. 8, pp. 1609-1619
- Document 2: Chan-Nam YOOK et al., "Alkylation of Orcinol with Nerol in Modified Lewis Acid," Bulletin of the Korean Chemical Society, 1992, Vol. 13, No. 5, pp. 457-458
- Document 3: JP 2000-72766 A
- Document 4: JP 7-165588 A
- Document 5: JP 2001-58969 A
- Document 6: JP 63-104912 A
- Document 7: WO 02/49632 A1

The inventions that are set forth in claims 1-5 are not disclosed or suggested in any of the abovementioned documents that are cited in the international search report; therefore, they are novel and involve an inventive step. Specifically, the compounds that are represented by general formula (1) are not disclosed or suggested in any of the abovementioned documents.